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## Claims

- 5 1. A method of controlling frequency selection in a wireless communication system in response to radar-like interference signals, comprising
- a) continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to the radar-like interference signals;
  - b) allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by a radar-like interference signal;
  - c) selecting one or more frequencies in dependence on the allocated quality parameters; and
  - d) further monitoring one or more frequencies with respect to radar-like interference signals.
  - The method of claim 1, wherein the quality parameter can assume one of a plurality of pre-defined values, a first value indicating that a frequency is occupied, a second value indicating that a frequency is not occupied, and a third value indicating that a frequency might be occupied.
    - 3. The method according to claim 1, wherein the quality parameter can assume any value between a lower quality border value and an upper quality border value.

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- 4. The method according to one of claims 1 to 3, wherein in step c) only those frequencies are selected to which quality parameters satisfying a threshold condition are allocated.
- 5. The method according to one of claims 1 to 4, wherein at least step a) is performed during a normal transmission mode.
- 10 6. The method according to one of claims 1 to 4, wherein at least step a) is performed prior to a normal transmission mode.
- 7. The method of one of claims 1 to 6,
  wherein at least step a) is performed by a separate
  monitoring device (MD) in communication with at least
  one of an access point (AP) and a central controller
  (CC) of the wireless communication system.
- 20 8. The method of one of claims 1 to 7,
  further comprising communicating the allocated quality
  parameters to an access point (AP) or a central controller (CC) of the same or a neighboring wireless communication system.
  - 9. The method of one of claims 1 to 8, wherein, if at least one of the radar-like interference signals and other interference signals are detected in step d), steps a) to c) are repeated.
  - 10. The method to one of claims 1 to 9, wherein during regular operation receive/transmit pauses are artificially created.

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- 11. The method of one of claims 1 to 10, wherein step d) comprises periodically monitoring one or more of the selected frequencies to assess an average quality thereof.
- 12. The method of claim 11, further comprising transmitting on the one or more frequencies having the highest average quality.
- 10 13. The method of claim 12, wherein after a predefined period of time the method returns to step a).
- 14. The method of claim 13, wherein for a specific transmission frequency the predefined period of time is selected in dependence on the quality parameter previously allocated to this transmission frequency.
- 20 15. The method of one of claims 13 or 14, wherein the predefined period of time is selected additionally in dependence on a system traffic load or the transmission quality of the currently used transmission frequency.
  - 16. The method of one of claims 1 to 15, wherein prior to switching from a first transmission frequency to a second transmission frequency, the second transmission frequency is subjected to at least steps a) and b).
  - 17. A computer program product comprising program code portions for performing the steps of claims 1 to 16 when the product is run on a computer.
  - 35 18. The computer program product of claim 17, stored on a computer readable recording medium.

- 19. A wireless communication system comprising:
  - a) a first unit for continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to radar-like interference signals;
  - b) a second unit for allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that a frequency is occupied by a radar-like interference signal;
  - c) a third unit for selecting one or more frequencies in dependence on the allocated quality parameters, wherein the first unit is adapted to further monitor one or more frequencies with respect to radar-like interference signals.
- 20. The wireless communication system of claim 19, comprising a monitoring device (MD) associated with or remote from at least one of an access point (AP) or a central controller (CC), wherein the monitoring device (MD) includes at least the first unit for continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to the radar-like interference signals.

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